IN THE SPECIFICATION:

Please amend the Title of the Invention to read as follows:

~~Method and Apparatus for Controlling a Single Control Port~~ <u>Multi-protocol A/V Control Port</u>

<u>with Selective Modulation</u>

Please amend the specification at page 2, lines 4-11 to read as follows:

Also included are two files: Makefile.txt and Atmel_mainapp.txt, which define how the 'c' files are built to create a software system. The ~~"Makefile.txt"~~ <u>"Atmel_mainapp.txt"</u> file defines the system in memory and the ~~"Atmel_mainapp.txt"~~ <u>"Makefile.txt"</u> file is a linker script for mapping the system in memory. The system is preferably built using the AVR-GCC C compiler (and assembler) that is made available through the GNU project, although one of ordinary skill in the art would be able to use any suitable 'c' compiler. The system operates using the ~~Atmel~~^{TM} <u>ATMEL brand</u> Mega16 microprocessor, although one of ordinary skill in the art would be able to use other processors as well.

Please amend the specification at page 3, lines 25-31 to page 4, lines 1-5 to read as follows:

Connectors that provide remote control over the media source equipment connected to the media management system are particularly problematic. A media management system would advantageously be able to control and receive media from disc changers (CD or DVD changers) made by different manufacturers. Different manufacturers use different protocols and techniques for controlling their disc changers remotely. A ~~Sony®~~ <u>SONY brand</u> disc changer typically uses an S-Link interface to receive control signals from the media management system. A ~~Kenwood®~~ <u>KENWOOD brand</u> disc changer on the other hand may not have a S-Link interface and may therefore require an Infrared (IR) remote control interface via a direct wire or attached IR LED flasher commonly referred to as a DVD or CD control port. A ~~Pioneer®~~ <u>PIONEER brand</u> disc

changer may use an IR remote control interface either direct wire or attached IR LED flasher, but it may use a different signal protocol than that of another manufacturer.

Please amend the specification at page 6, lines 9-22 to read as follows:

Figure 1 depicts operation of an exemplary media management system 10 comprising a plurality of media source input/output (I/O) ports 12 coupled to a plurality of media source devices or systems (e.g. Internet 20, personal computer 24, disc changers 26a-c). The media management system 10 accesses each media source and organizes information about the media that is accessible to the user of the media management system 10. The media management system 10 displays selected information about the media on a display 32. The media management system 10 also allows the user to configure and select media to play using a keyboard 34, an IR remote control 30 or another suitable input device. The media management system 10 comprises a media player interface 18 having a plurality of output ports coupled to a plurality of media players (e.g. ~~media~~ audio receiver 38 having speakers 40, television 36). A user interface 16 processes user input and output via the display 32 and the keyboard 34 and provides configuration and execution processes to allow the user to manage and play the media obtained from the media sources.

Please amend the specification at page 7, lines 24-30 to read as follows:

In alternative embodiments, the remote control port on the disc changer may be designed to communicate using a wired signal protocol. One example of a wired signal protocol is the S-Link protocol used on typical ~~Sony~~ SONY brand audio-visual equipment. The S-Link protocol is bi-directional and communicates a serial digital pattern. The S-Link protocol may also comprise different flavors or variations that may be implemented by different equipment or by ~~non-Sony~~ non-SONY brand equipment. For example, the S-Link protocol may be a control-S or a control-A protocol.

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Please amend the specification at page 9, lines 1-5 to read as follows:

In a preferred embodiment, the interface controller 60 uses the ~~Atmel~~™ AMTEL brand Mega16 microprocessor. Examples of computer programs that may be used with the interface controller 60 in a preferred embodiment are contained in a CD attached hereto as an Appendix. The computer programs performed by the interface controller 60 in the CD in the Appendix are programs written in the 'c' programming language.

Please amend the specification at page 9, lines 13-31 to read as follows:

The external devices may include a first A/V device 90, a second A/V device 92, a third A/V device 94 and a fourth A/V device 96. The first A/V device 90 and fourth A/V device 96 comprise bi-directional control lines that interface with first and fourth control ports 76a and 76d, respectively. The first and fourth control ports 76a and 76d may be examples of ports conforming to the S-Link control protocol. The second A/V device 92 comprises a wireless IR control interface. The control port system 14 has a wire extended IR transmitter 76b that communicates IR signals based on the digital electrical signals output by the control signal processor 82. The third A/V device 94 has a wired IR interface that is an output <u>of the control signal processor 84.</u> ~~only that communicates IR signals to the fourth control port 76d.~~

In an exemplary embodiment, the interface controller 60 receives a configuration instruction from the system bus 50 and configures the control signal processor 80-86 to operate in accordance with the a selected protocol driver 64. The configuration instruction specifies the selected protocol driver, which correlates with the type or brand of equipment connected at the

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control port 76a-d. For example, a <u>KENWOOD brand</u> CD changer ~~manufactured by Kenwood®~~ may operate in accordance with a different signal protocol than a ~~Pioneer®~~ <u>PIONEER brand</u> CD changer. The plurality of protocol drivers 64 may therefore comprise a ~~Kenwood®~~ <u>KENWOOD brand</u> CD changer signal protocol and a ~~Pioneer®~~ <u>PIONEER brand</u> CD changer signal protocol.